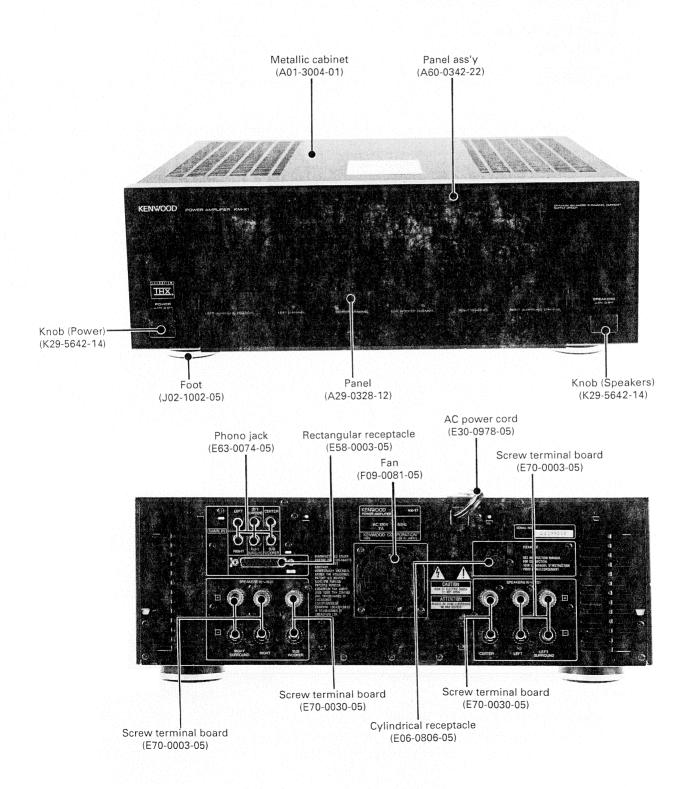
KM-X1 SERVICE MANUAL

KENWOOD

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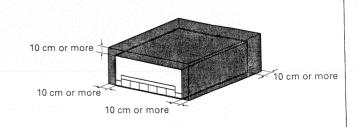
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Caution on heat generation

- This unit incorporates a cooling fan on the rear to deal with the large amount of heat generation. The fan starts rotation automatically when the internal temperature of the unit rises. Install the unit taking care not to block the ventilation (heat radiation).
 - * Reserve clearances of more than 10 cm on the left and right, behind and above the unit. When the unit is installed in a rack, do not close tight with a door.
- The cooling fan of this unit is designed to absorb external air. If curtain or sheet of paper is attracted to the unit, the internal temperature may rise, and the sound may not be produced when the protection circuitry is activated due to temperature rise. Please be careful against this.

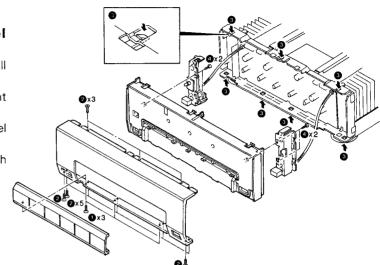
To allow heat radiation, leave a space, shown with between this unit and the walls or rack shelves.



DISASSEMBLY FOR REPAIR

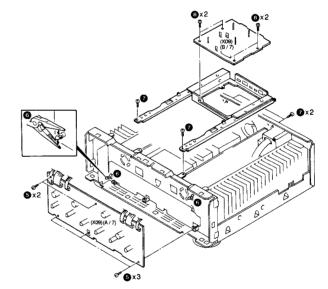
1) Removing the front panel and panel escutcheon

- 1. Remove the three screws (1), then remove the small panel at the bottom.
- 2. Remove the 10 screws (2), then remove the front panel.
- 3. Remove the seven hooks (3), then remove the panel escutcheon.
- 4. Remove the four screws (4), then remove the switch fitting.



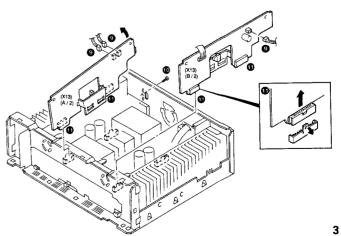
2) Removing X09, A/7 (A-class PCB) and X09, B/7

- 5. Remove the five screws (6).
- 6. Remove the two unit holders (6), then remove the PCB.
- 7. Remove the four screws (1), then remove the frame.
- 8. Remove the four screws (3), then remove the PCB.



3) Removing X13 (B-class PCB)

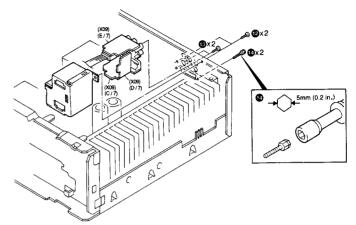
- 9. Disconnect the three connectors (9).
- 10. Remove the one screw (10).
- 11. Disconnect the four connectors (11), then remove the PCB.
 - * Move the R-side PCB (X13, B/2) to the sub-chassis side, lift the terminal side, and remove the PCB to prevent damage to the DB25 terminal.
 - * Note that the connector does not go in easily when the R-side PCB (X13, B/2) has been installed.



DISASSEMBLY FOR REPAIR

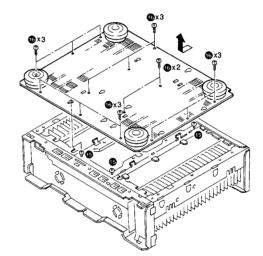
4) Removing the DB25 terminal

- 12. Remove the two screws (12), then remove the fitting.
- 13. Remove the two screws (13), then remove the two hexagonal-head volts (14) with the box screwdriver (5 mm [0.2 in.]), and remove the PCB.



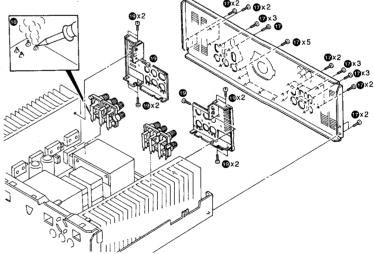
5) Removing the bottom plate

- 14. Loosen the three screws (15).
- 15. Remove the 14 screws (18), then slide the bottom plate slightly forward and remove it.



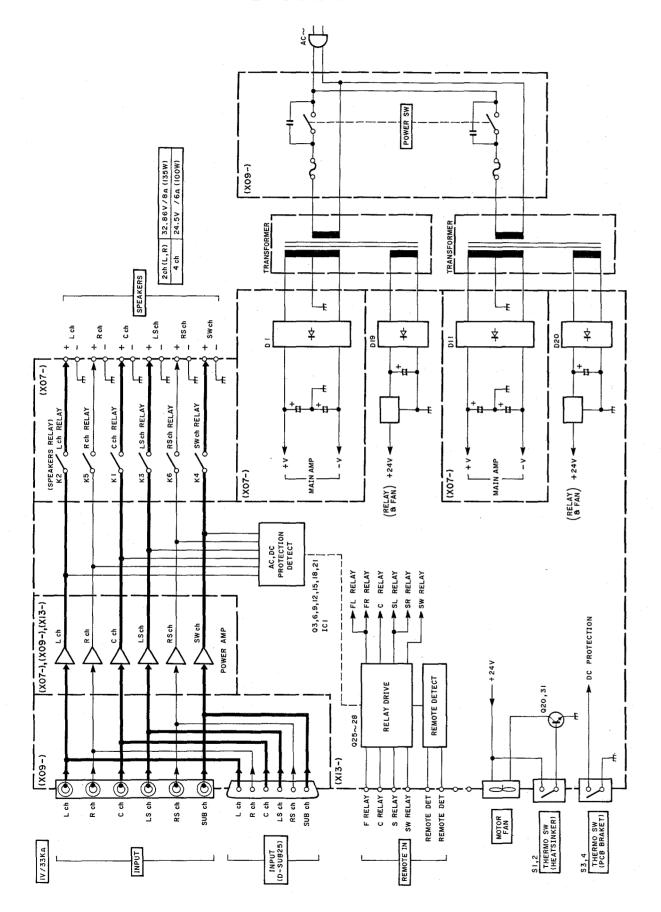
6) Removing the speaker terminals

- 16. Remove the 26 screws (10), then remove the rear panel.
- 17. Remove the solder from the speaker terminals (18), remove the 10 screws (19) holding the fitting, then remove the two speaker terminals.



KM-X1

BLOCK DIAGRAM



ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG
	Unless you have some sp	ecial reason otherwi	se, please use the following setting for ea	ach switch.			
		POWER: ON	SPEAKER: ON		_		
1	OFF-SET VOLTAGE	_	Connect a DC voltmeter to each channel of speaker terminal (+,-).	-	Lch : VR1 Rch : VR5 LSch : VR3 RSch : VR6 Cch : VR2 SWch : VR4 (X09-3800-10)	OV	-
2	IDLE CURRENT		Connect a DC voltmeter between TP8 and TP10 (Lch) TP4 and TP6 (LSch) TP12 and TP14 (Cch). (X07-2750-10,A/2)	-	Lch : VR2 LSch : VR1 Cch : VR3 (X07-2750-10, A/2)	8mV	
	IDE CONTENT		Connect a DC voltmeter between TP7 and TP9 (Rch) TP3 and TP5 (RSch) TP11 and TP13 (ŚWch). (X07-2750-10,8/2)	-	Rch : VR5 RSch : VR4 SWch : VR6 (X07-2750-10, B/2)		

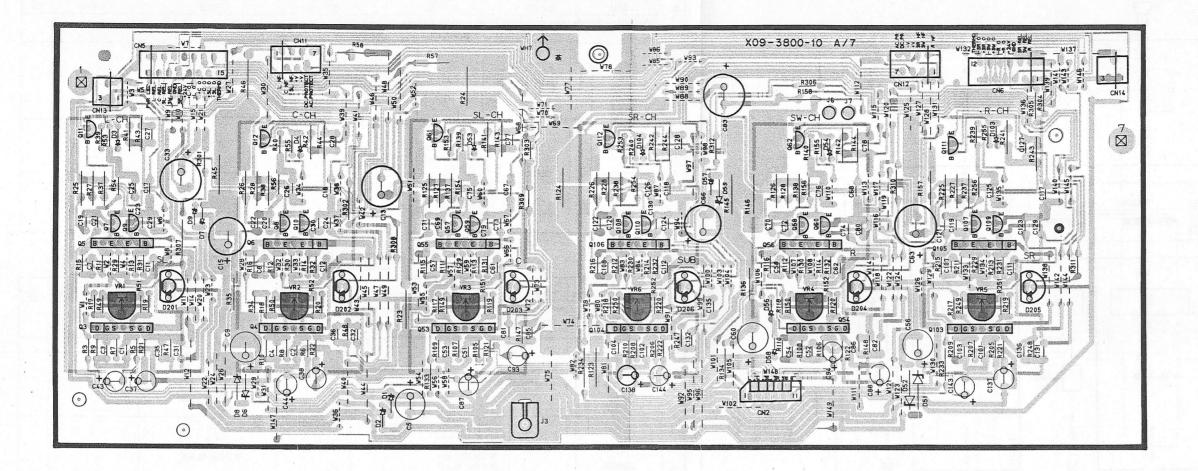
REGLAGE

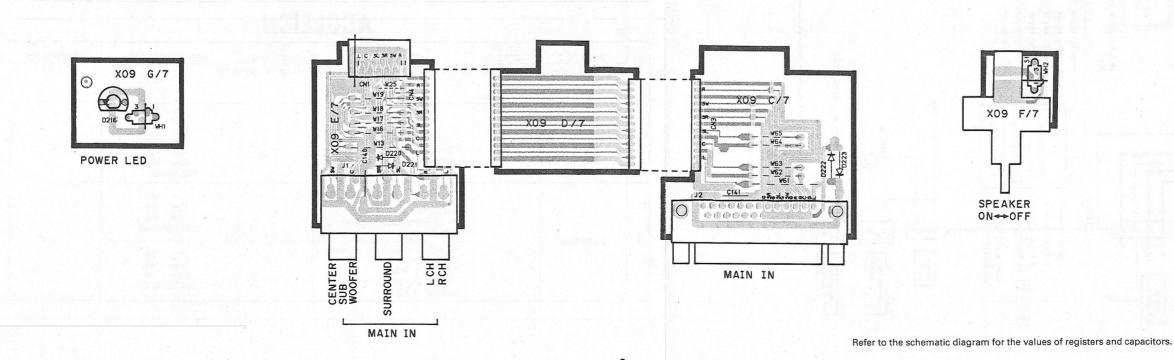
No.	ITEM	REGLAGE D' ENTREEE	REGLAGE DE SORTIE	REGLAGE DU LECTEUR	POINT D'ALIGNEMENT	ALIGNEMENT POUR	FIG
	A moins que l'on n'ait d'a	utres raisons, utilise	r le réglage suivant pour chaque commutateur.				- [
		ALIMENTATION: ACTIVE	HAUT-PARLEUR: ACTIVE		:		
1	TENSION DE SUPPRESSION	-	Connecter un voltmètre CC à chaque canal de borne de haut-parleur (+,-).	-	Lch : VR1 Rch : VR5 LSch : VR3 RSch : VR6 Cch : VR2 SWch : VR4 (X09-3800-10)	OV	
2	COURANT	_	Connecter un voltmètre CC entre TP8 et TP10 (Lch) TP4 et TP6 (LSch) TP12 et TP14 (Cch). (X07-2750-10, A/2)	· - .	Lch : VR2 LSch : VR1 Cch : VR3 (X07-2750-10, A/2)	8mV	
	REACTIF	-	Connecter un voltmètre CC entre TP7 et TP9 (R ch) TP3 et TP5 (RSch) TP11 et TP13 (SWch). (X07-2750-10.B/2)	-	Rch : VR5 RSch : VR4 SWch : VR6 (X07-2750-10. B/2)	Gilly	

ABGLEICH

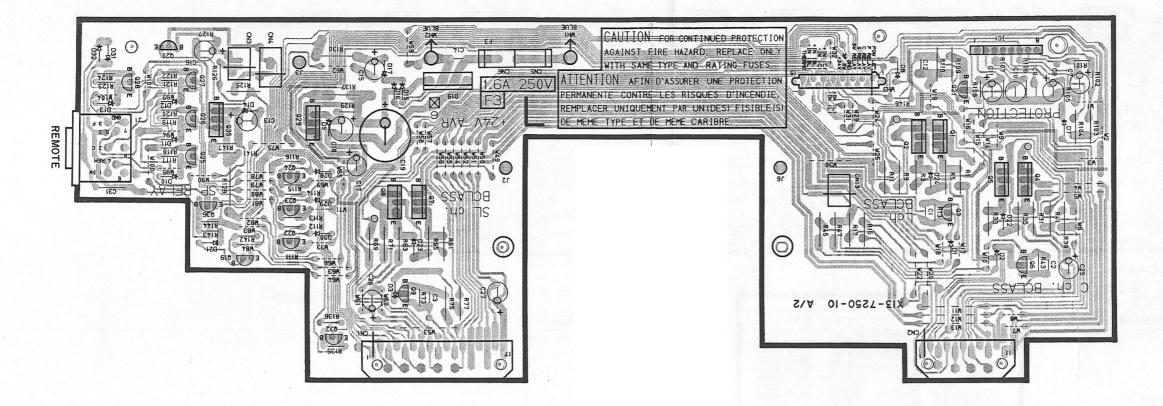
Nr.	GEGENSTAND	EINGABE EINSTELLUNG	AUSGABE EINSTELLUNG	PLAYER EINSTELLUNG	AUSRICHTUNGSPUNKT	AUSRICHTEN FÜR	ABB
	Außer wenn Sie einen be	sonderen anderen Gr	und haben, verwenden Sie bitte die folgenden E	instellungen für jeden S	Schalter.		
		STROMVER- SORGUNG: EIN	LAUTSPRECHER: EIN		· ·		
qu-	OFF-SET- SPANNUNG	-	Schließen Sie eine GS- Spannungsmesser an jedem Kanal der Lautsprecherbuchse an (+,-).	-	Lch : VR1 Rch : VR5 LSch : VR3 RSch : VR6 Cch : VR2 SWch : VR4 (X09-3800-10)	OV	
2	DUNDSTROM		Einen GS-Spannungsmesser zwischen TP8 und TP10 (Lch) TP4 und TP6 (LSch) TP12 und TP14 (Cch) anschließen. (X07-2750-10. A/2)	-	Lch : VR2 LSch : VR1 Cch : VR3 (X07-2750-10. A/2)	8mV	
	BLINDSTROM	_	Einen GS-Spannungsmesser zwischen TP7 und TP9 (Rch) TP3 und TP5 (RSch) TP11 und TP13 (SWch) anschließen. (X07-2750-10. B/2)	-	Rch : VR5 RSch : VR4 SWch : VR6 (X07-2750-10. B/2)	Sinv	

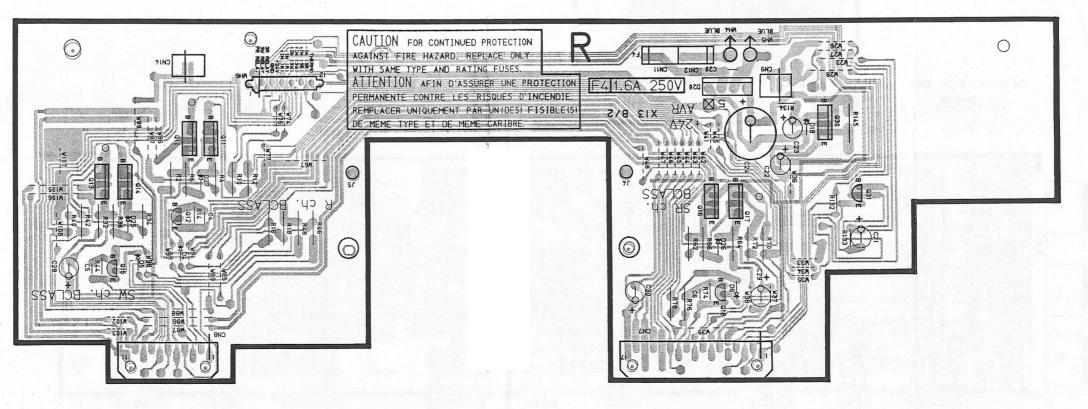
PC BOARD (Component side view)





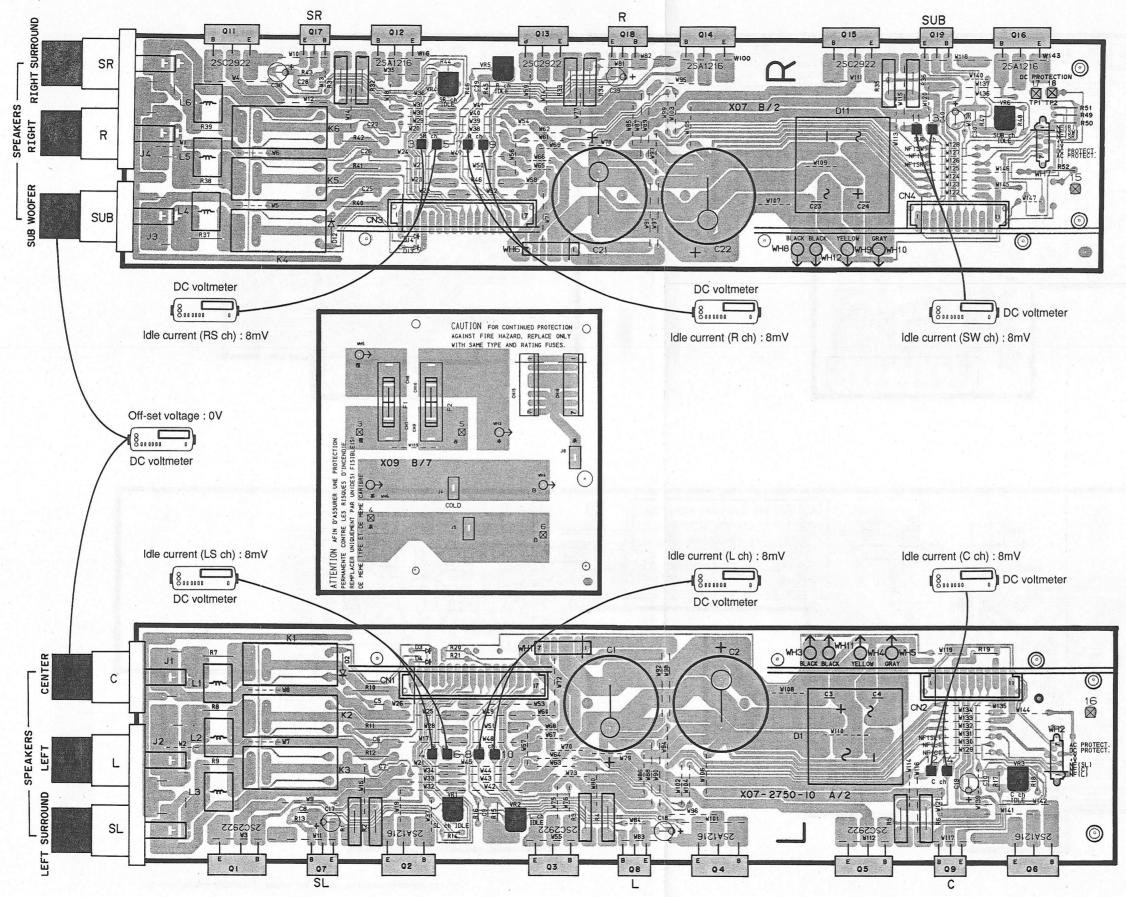
PC BOARD (Component side view)

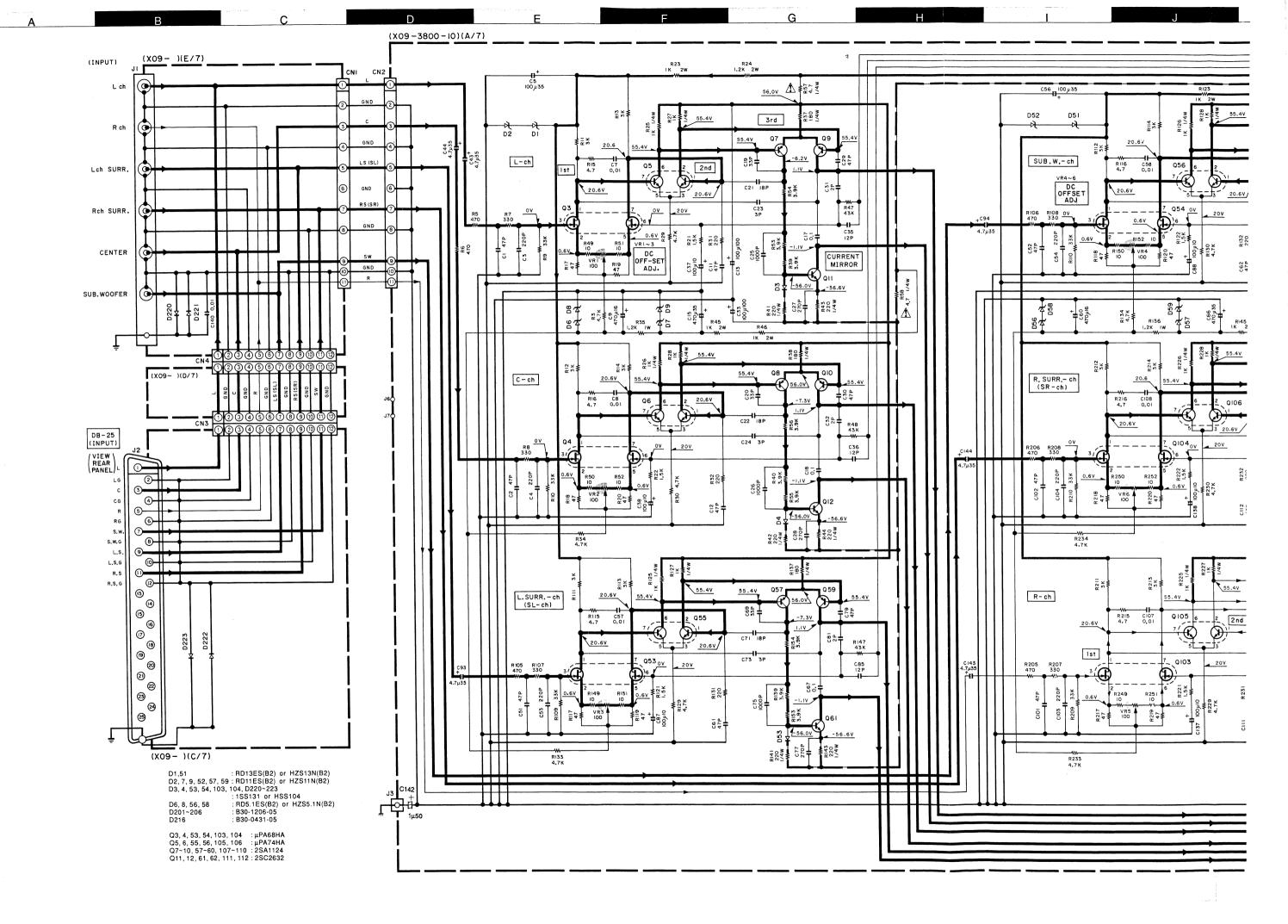


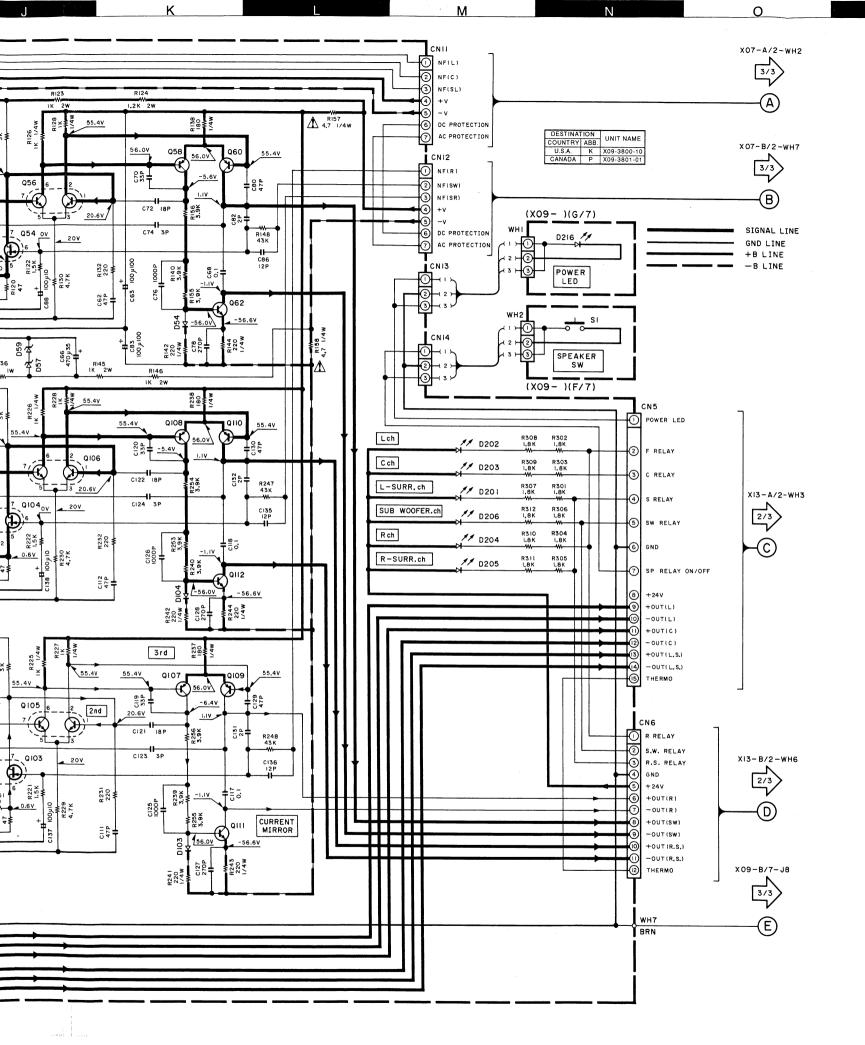


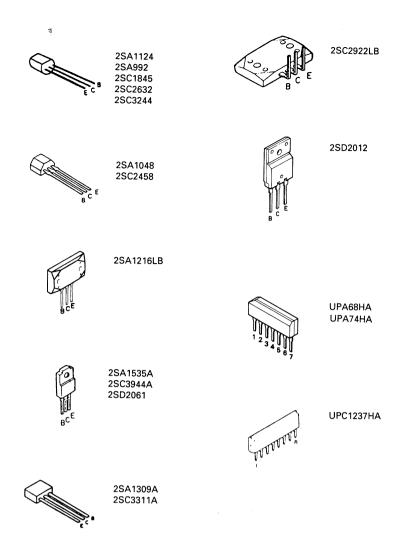
Refer to the schematic diagram for the values of registers and capacitors.

PC BOARD (Component side view)









CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). \triangle Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out. (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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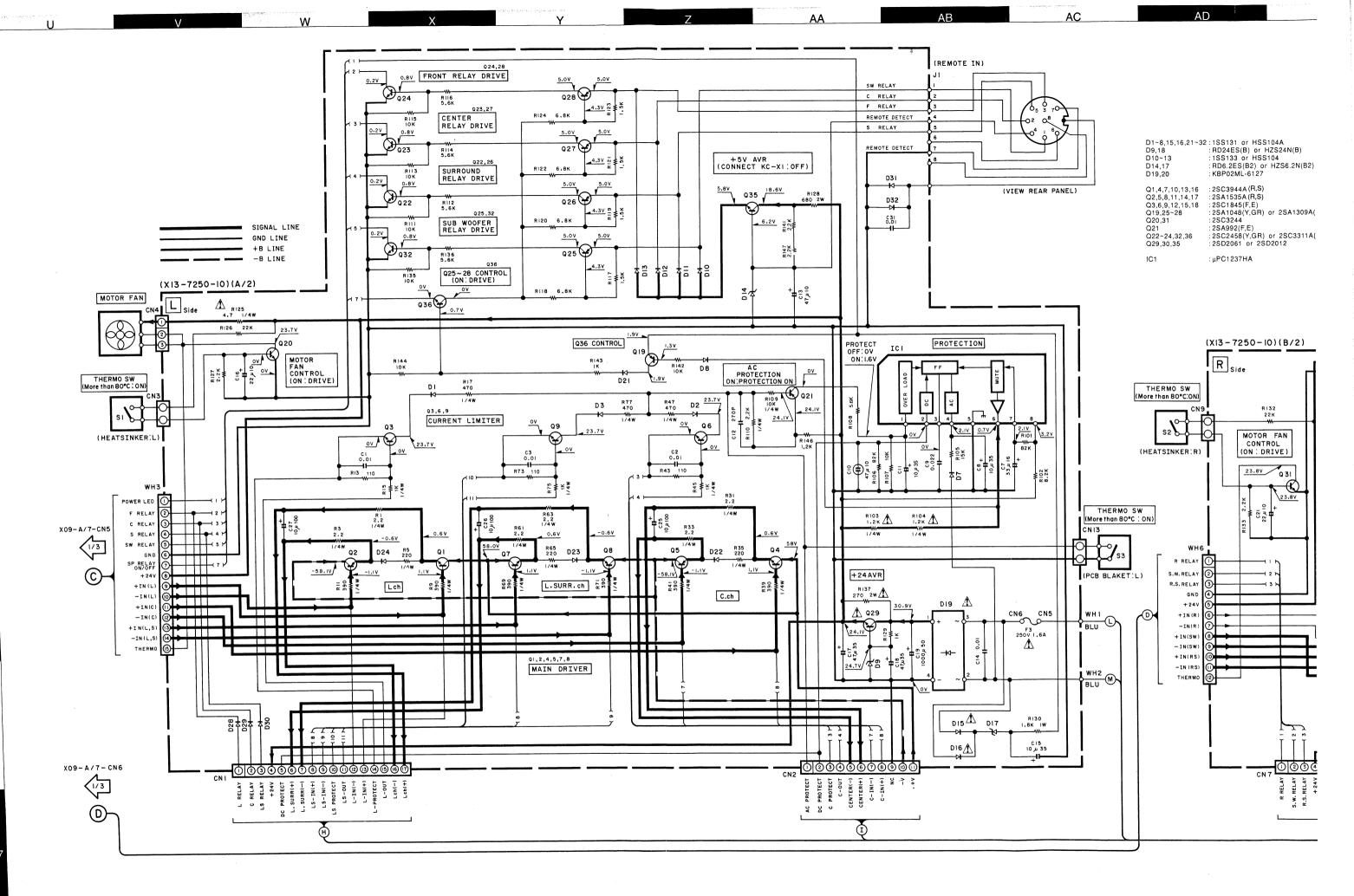
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and

Les tensions c.c. doivent ètre mesurèes avec un voltmètre à haute impédance sans signal d'entrèe. Les valeurs peuvent différer légèrement du fait des variations. inhérentes aux appareils et aux instrument de mesure individuels.

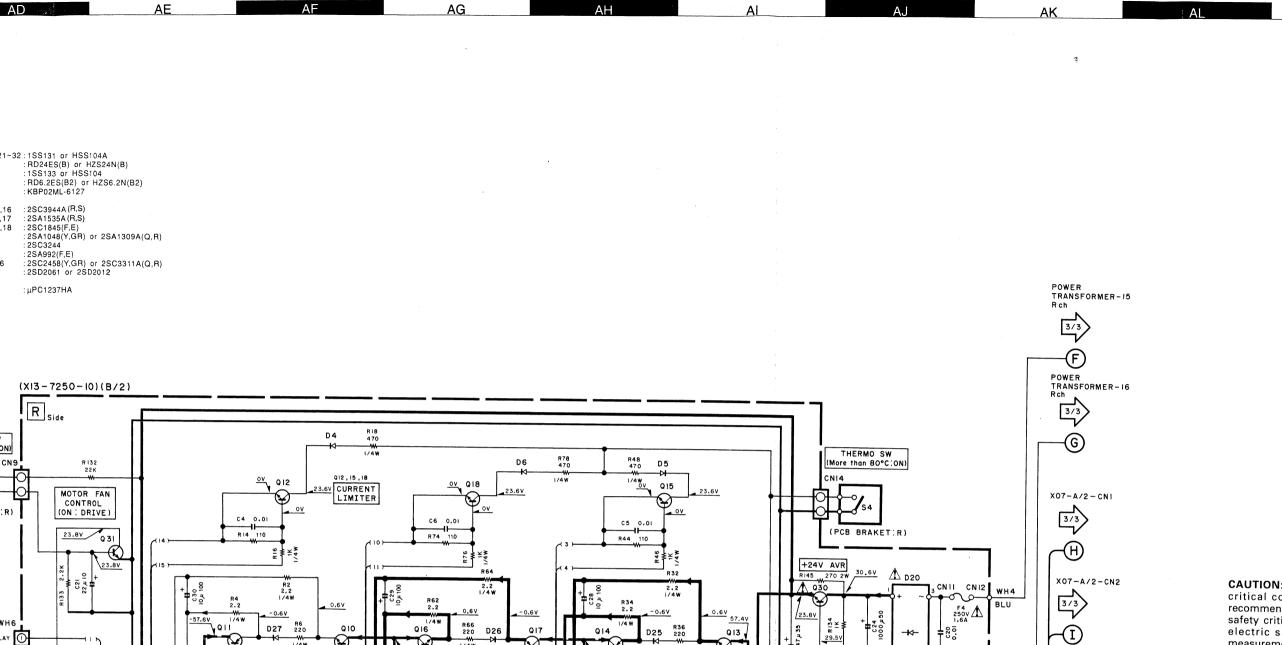
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanden die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Gerâten u.U. geringfûgig.

> KM-X1 KENWOOD

Y08-4770-10



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SUB. W. ch

910,11,13,14,16,17

MAIN DRIVER

3390 1¥ 1¥

#

R. SURR. ch

Rch

CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). A Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out. (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

X07-B/2-CN3

X07-B/2-CN4

POWER TRANSFOMER-16

POWER TRANSFOMER-15

3/3

-(J)

3/3

-(K)

13/3

-Œ

3/3

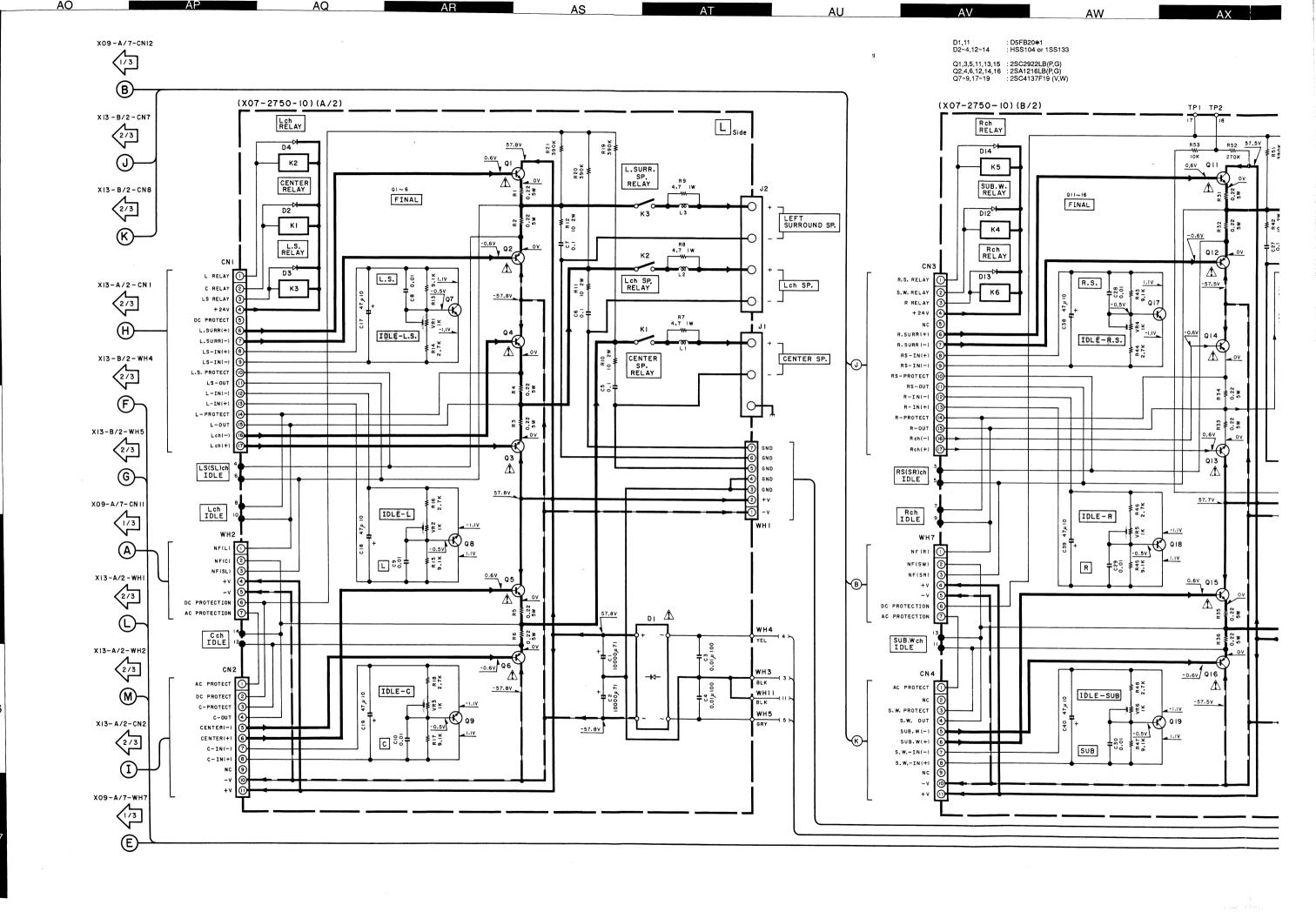
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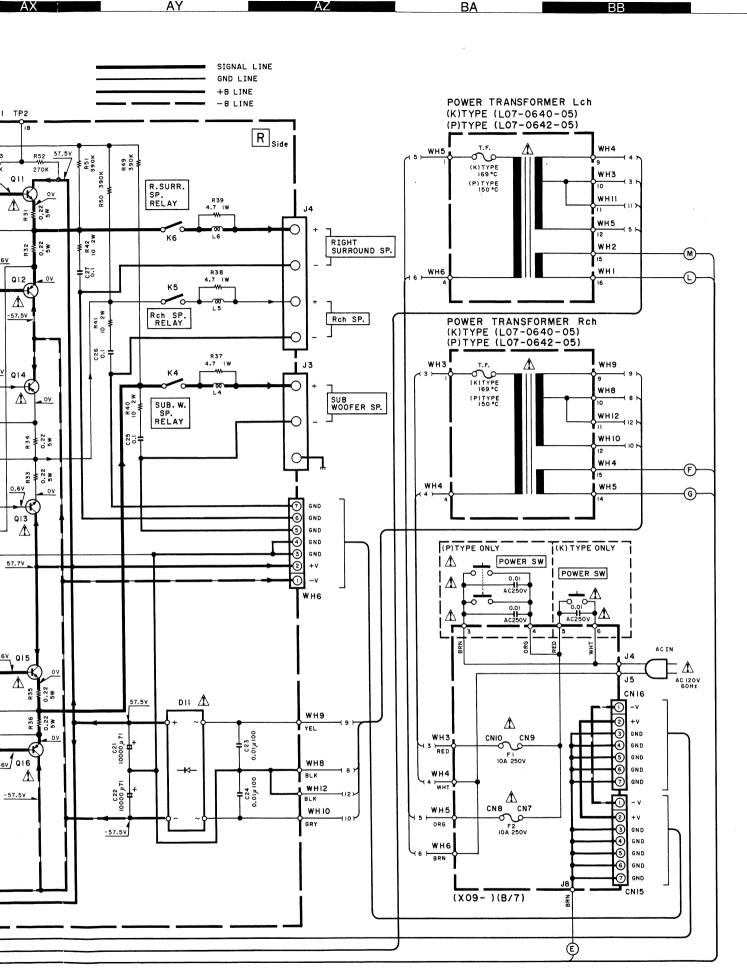
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units

Les tensions c.c. doivent ètre mesurèes avec un voltmètre à haute impédance sans signal d'entrèe. Les valeurs peuvent différer légèrement du fait des variations. inhérentes aux appareils et aux instrument de mesure individuels.

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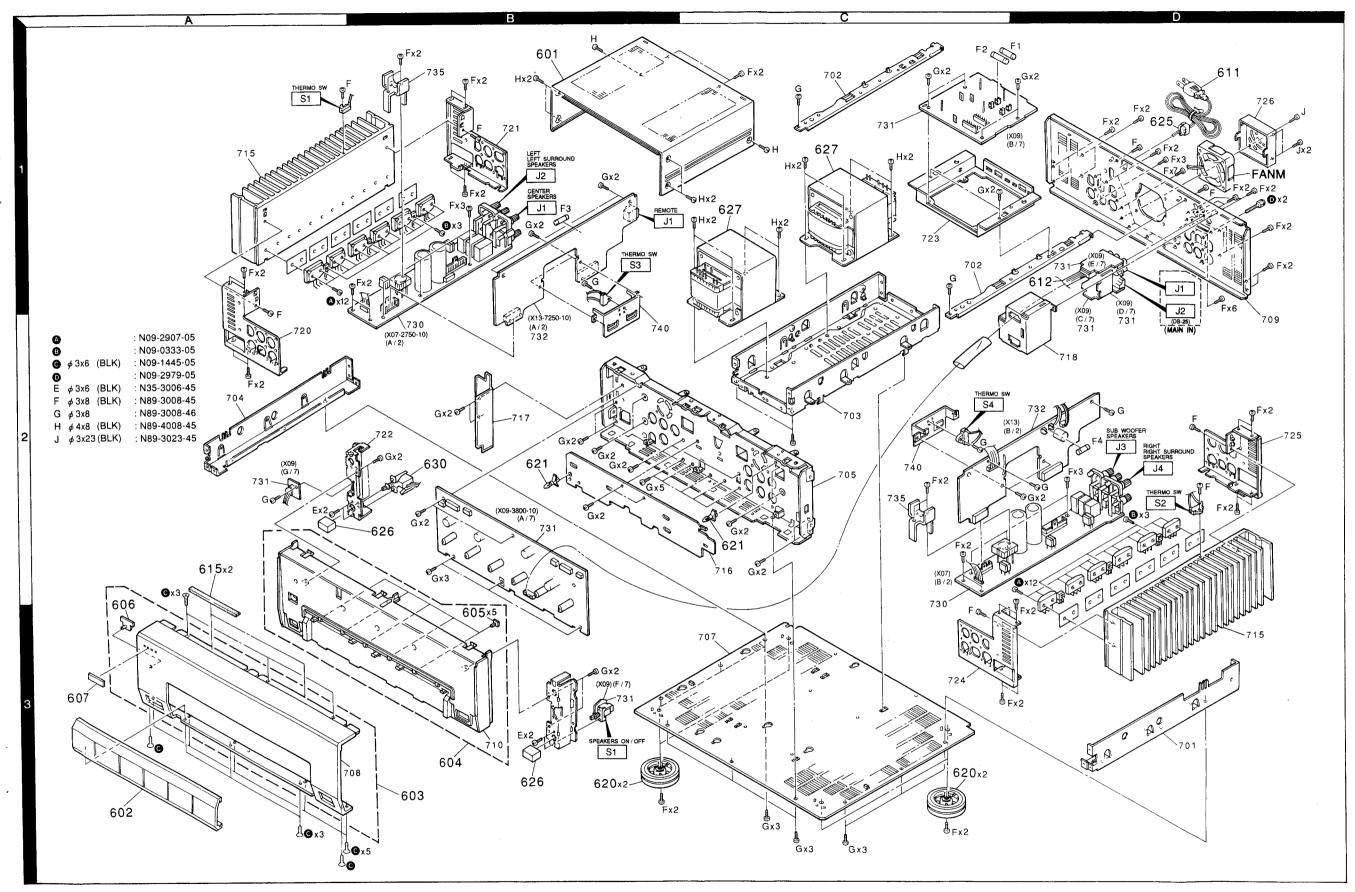
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units

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> KM-X1 3/3 Y08-4770-10 KENWOOD

KM-X1 KM-X1 EXPLODED VIEW



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∪ 100 100 100 100 100 100 100 100 100 10	18 18 20 20		* *	E70-0030-05 E70-0003-05 E70-0030-05	SCREW TERMINAL BOARD(C.SP) SCREW TERMINAL BOARD(L,LS SCREW TERMINAL BOARD(SW SP SCREW TERMINAL BOARD(R,RS SCREW TERMINAL B	SP		
L1 -6				L39-0085-05	PHASE COMPENSATION COIL			
R1 -6 R7 -9 R10 -12 R31 -36 R37 -39				R92-0167-05 RS14DB3A4R7J RS14DB3D1007 R92-0167-05 RS14DB3A4R7J	METAL-PLATE 0.22 K ST FL-PROOF RS 4.7 J 11 FL-PROOF RS 10 J 2) METAL-PLATE 0.22 K ST FL-PROOF RS 4.7 J 11	158 158 158 158		
R40 -42 VR1 -6				RS14DB3D100J R12-1616-05	FL-PROOF RS 10 3 2W TRIMMING POT 1K <idle current=""></idle>	, LN		
K1 -6				S51-2078-05	MAGNETIC RELAY(SPEAKER ON/	ON/OFF)		
D1 D2 -4 D2 -4 D11 -14				DSFB20*1 HSS104 1SS133 DSFB20*1 HSS104	DIODE DIODE DIODE DIODE DIODE			
D12 -14 Q1 Q2 Q3 Q4			***	1SS133 2SC2922LB(P,G) 2SA1216LB(P,G) 2SC2922LB(P,G) 2SA1216LB(P,G)	DIODE TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR			
95 96 97 911 912			** **	2SC2922LB(P,G) 2SA1216LB(P,G) 2SC4137F19(V,W) 2SC2922LB(P,G) 2SA1216LB(P,G)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR			
913 914 915 916 917 -19			***	2SC2922LB(P,G) 2SA1216LB(P,G) 2SC2922LB(P,G) 2SA1216LB(P,G) 2SA137F19(V,W)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	*********		
			7	DIO UNIT	X09-3800-10)			4
D201-206 D216				B30-1206-05 B30-0431-05	LED LED(LN21CPH)(P@WER LED)			_
C1 ,2 C5 ,4 C7 ,8 C7 ,8 C9			* *	CC45FSL1H470J CC45FSL1H221J C90-3397-05 CF92FV1H103J C90-3377-05	CERAMIC 220PF J CERAMIC 220PF J ELECTRO 100UF 35WV MP 0.010UF J ELECTRO 470UF 16WV			
C11 ,12 C13 C15 C17 ,18 C19 ,20			* *	CC45FSL1H470J C90-3444-05 C90-3400-05 CF92FV1H104J CC45FSL1H330J	CERAMIC 47PF J 100UF 100UV 100UF 35WV 470UF 35WV MF 0.10UF J CERAMIC 33PF J	≥:		
C21 ,22 C23 ,24			V	CC45FSL1H180J CC45FSL1H030C	CERAMIC 18PF J CERAMIC 3.0PF C			

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Barts No.	01-3004-01 29-0328-12 60-0342-22	801-0497-12 B12-0215-04 B12-0219-04 B43-0287-04 B46-0092-23	446-0121-23 446-0197-00 860-1089-00 860-1090-00	91-1439-05	30-0978-05 35-0551-05	09-0081-05	G11-0191-04	10-5432-02 10-5433-02 25-0232-04 25-0319-04 50-0530-04	02-1002-05 19-3324-15 42-0083-05 61-0307-05	29-5642-14	07-0640-05 07-0642-05	09-2907-05 09-0333-05 09-1445-05 09-2979-05 35-3006-45	89~3008~45 89~3008~46 89~4008~45 89~3023~45	S40-1094-05 S68-0029-05		C90-3478-05 CQ93HP2A103J CF92FV1H104J CK45FF1H103Z C90-3362-05	C90-3478-05
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Description 晶名/規	1.2K 180 220 1.0K	1.0K 1.2K 1.0K 1.2K 1.00	220 1.0K 4.7 1.0K 180	220 .(DC @F	SPEAKER							
粉	F RS	F RS	F RS	G POT	SWITCHO	100E 100E 100E	100E 100E 100E 100E	100E 100E 100E 100E 100E	IODE IODE IODE	100E 100E 100E 100E 100E	100E 100E 100E	į
	FL-PROGIRD RD RD FL-PROGIRD RD	FL-PROOF FL-PROOF RD FL-PROOF	RD FL-PRØØI RD RD RD	RD TRIMMIN	PUSH SW	ZENER D ZENER D ZENER D ZENER D ZENER D	DIODE ZENER D ZENER D ZENER D ZENER D ZENER D	ZENER D ZENER D ZENER D ZENER D ZENER D	ZENER D ZENER D ZENER D DIØDE DIØDE	ZENER D ZENER D ZENER D ZENER D ZENER D	ZENER D ZENER D ZENER D DIØDE DIØDE	DIODE
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Ref. No. 機器構造	R35 R37 ,38 R41 -44 R45 ,46 R57 ,58	R123 R124- R125-128- R136 R137,138	R141-144 R145,146 R157,158 R225-228 R237,238	R241-244 VR1 -6	51	001 002 032 7.4	005 006 077 070	08 09 09	051 052 053 053 ,54	056 057 057	058 059 059 0103,104 0103,104	D220-223

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	į.		,	CK45FB1H102k CC45FS1H271 CC45FS1H47C CC45FS1H47C CC45FS1H02C	1	1000Pi 270PF 47PF 2.0PF	7 D D O C	1	
ი ო ო 4 ია			•	C45FSL1H1: E04KW1A10 E04KW1V4R: C45FSL1H4: C45FSL1H2:	ERAMI LECTR ERAMI ERAMI	2PF 2PF 000 7PF 20P	104V 354V		
056 057,58 060 061,62			* * *	C90-3397-05 CF92FV1H103J C90-3377-05 CC45FSL1H470J C90-3444-05	BLECTRO BLECTRO CBRAMIC BLECTRO	100UF 0.010UF 470UF 47PF 100UF	35WV J 16WV J 100WV		
066 ,68 069 ,70 071 ,72 073 ,74			*	C90-3400-05 CF92FV1H104J CC45FSL1H330J CC45FSL1H180J CC45FSL1H030C	BLECTRO MF CERAMIC CERAMIC CERAMIC	470UF 0.10UF 33PF 18PF 3.0PF	35WV J J C		
C75 ,76 C77 ,78 C79 ,80 C81 ,82			*	CK45FB1H102K CC45FSL1H271J CC45FSL1H470J CC45FSL1H020C C90-3444-05	CBRAMIC CBRAMIC CBRAMIC CBRAMIC BLECTRO	1000PF 270PF 47PF 2.0PF 100UF	K J C 100WV		
C85,86 C87,88 C93,94 C101,102				CC45FSL1H120J CE04KW1A101M CE04KW1V4R7M CC45FSL1H470J CC45FSL1H21J	CERAMIC BLECTRO BLECTRO CERAMIC CERAMIC	12PF 100UF 4.7UF 47PF 220PF	J 10WV 35WV J		
C107, 108 C111, 112 C117, 118 C119, 120 C121, 122	*			CF92FV1H103J CC45FSL1H470J CF92FV1H104J CC45FSL1H330J CC45FSL1H30J	MF CERAMIC MF CERAMIC CERAMIC	0.010UF 47PF 0.10UF 33PF 18PF	רו נו נו נו נו נו		
0123,124 0125,126 0127,128 0129,130				CC45FSL1H030C CK45FB1H102K CC45FSL1H271J CC45FSL1H470J CC45FSL1H470J	CERAMIC CERAMIC CERAMIC CERAMIC	3.0PF 1000PF 270PF 47PF 2.0PF	OKPPO		
0135,136 0137,138 0140 0142			7	CC45FSL1H120J CE04KW1A101M C91-0769-05 CE04KW1H010M CE04KW1V4R7M	CERAMIC BLECTRO CERAMIC ELECTRO	12PF 100UF 0.01UF 1.0UF 4.7UF	J 104V K 504V 354V		
J1 J2	100		* *	E63-0074-05 E58-0003-05	PHONO JACK(MA	AIN IN) RECEPTACL	ECMAIN IN		
F1 ,2			*	05-1037-0 13-0041-0	USE CLI	(250V	10A)		
. w 4 n	. <u> </u>			J11-0098-05 RSI4DB3D102J RSI4DB3D122J	WIRE CLAMPER FL-PROOF RS FL-PROOF RS	1.0K	J 29		

A indicates safety critical components.

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

 $oldsymbol{\Lambda}$ indicates safety critical components.

P.Canada E.Europe M.Other Areas

K:USA T:England X:Australia

L:Scandinavia Y:PX(Far East, Hawaii) Y:AAFES(Europe)

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Description	路品化/纸	FL-PROOF RS 680 FL-PROOF RS 1.8K FL-PROOF RS 270 FL-PROOF RS 270	THERMAL SWITCH	DIODE DIODE ZENER DIODE ZENER DIODE DIODE	DIODE ZENER DIODE ZENER DIODE DIODE	ZENER DIØDE ZENER DIØDE ZENER DIØDE ZENER DIØDE DIØDE	DIODE DIODE IC(POWER AMP) TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TRANSISTOR
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011 053 053 057 061	. 54 . 56 . 60				2SC2632 UPA68HA UPA74HA 2SA1124 2SC2632	TRANSISTOR DUAL FET DUAL TRANSIST TRANSISTOR TRANSISTOR	TØR			
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17,882	9-		જ	9	3-CIRCUIT (CK45FF1H103Z CE04KW1C330M CE04KW1V100M CK45FF1H220M	CERAMIC ELECTRO ELECTRO ELECTRO CERAMIC NP-ELEC	0.0100F 330F 100F 0.0220F 470F	Z 16WV 35WV 2 10WV		
				* *	E04KW1V2 C45FSL1H 90-3362- K45FF1H1	LECTR ERAMI LECTR ERAMI	100F 270PF 470F 0.010UF	35WV J 10WV Z 35WV		
77777	118			*	CEO4KW1A220M C90-3396-05 CEO4KW1H102M CK45FF1H103Z CEO4KW1A220M	ELECTRO BLECTRO ELECTRO CERAMIC ELECTRO	22UF 47UF 1000UF 0.010UF 22UF	10WV 35WV 50WV 2 10WV		
022 024 025 031	,23			*	C90-3396-05 CE04KW1H102M CE04KW2A100M C91-0769-05	BLECTRO ELECTRO ELECTRO CERAMIC	47UF 1000UF 10UF 0.01UF	35WV 50WV 100WV K		
11		18			E06-0806-05	CYLINDRICAL F	RECEPTACL	E(REMOTE)		
E.	4				F05-1628-05	FUSE (UL)	(250V	1.6A)		
CN5 CN11 J2	112				J13-0075-05 J13-0075-05 J11-0098-05	FUSE CLIP FUSE CLIP WIRE CLAMPER				
R1 R5 R9 R15	4- -1- 118 118				RD14NB2E221J RD14NB2E221J RD14NB2E391J RD14NB2E102J RD14NB2E471J	22222	2.2 220 390 1K 470	J 1/4W J 1/4W J 1/4W J 1/4W		
R 3 3 3 3 3 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5	486 446 486 488				RD14NB2E22J RD14NB2E22J RD14NB2E391J RD14NB2E102J RD14NB2E471J	7 7 7 7 7 7 7 7 7 7 7 7	2.2 220 390 1K 470	J 1/4W J 1/4W J 1/4W J 1/4W		-
R61 R65 R69 R75	-64 -66 -72 -78	1			RD14NB2E2RJ RD14NB2E22LJ RD14NB2E39LJ RD14NB2E102J RD14NB2E47LJ	22222	2.2 220 390 1K 470	J 1/4W J 1/4W J 1/4W J 1/4W		
R103 R109 R110	3, 104				RD14NB2E122J RD14NB2E103J RD14NB2E222J RD14NB2E222J	8888	1.2K 10K 2.2K	1/4W 1/4W 1/4W		



PARTS LIST

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SPECIFICATIONS

AUDIO SECTION

Rated power output (FTC)

STEREO MODE

130 watts per channel minimum RMS, both channels driven, at 8Ω from 20 Hz to 20 kHz with no more than 0.03 % total harmonic distortion.

SURROUND MODE

Front

100 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.03% total harmonic distortion.

Center

100 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.03% total harmonic distortion.

Rear (Surround)

100 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.03% total harmonic distortion.

Sub woofer

100 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.03% total harmonic distortion.

Input sensitivity/impedance MAIN IN					
Total harmonic distortion <u>STEREO MODE</u>					
Frequency response MAIN IN 10 Hz-100 kHz, +0 dB, - 3 d					
Signal to noise ratio (IHF A) MAIN IN					
GENERAL					
Power consumption					
Dimensions					
Weight (Net) 20 kg (44.1 lb)					



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION